

NRF Presentation to the Regional Initiative in Science and Education



RISA
Research and Innovation
Support and Advancement



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Legislative Mandate of the NRF



Promote and support research

through

funding, human resource development and the provision of the necessary **research facilities**

in order to

facilitate the **creation of knowledge**, innovation and development in all fields of science and technology, including indigenous knowledge

and thereby to

contribute to the **improvement of the quality of life** of all the people of the Republic

NRF Act, No 23 of 1998

Pillars of the NRF

Quality of life

**S&T
outreach
(SAASTA)**

**Research and
Innovation Support
and Advancement
(RISA)**

**Provision of
National
Research
Facilities**

National Research Foundation

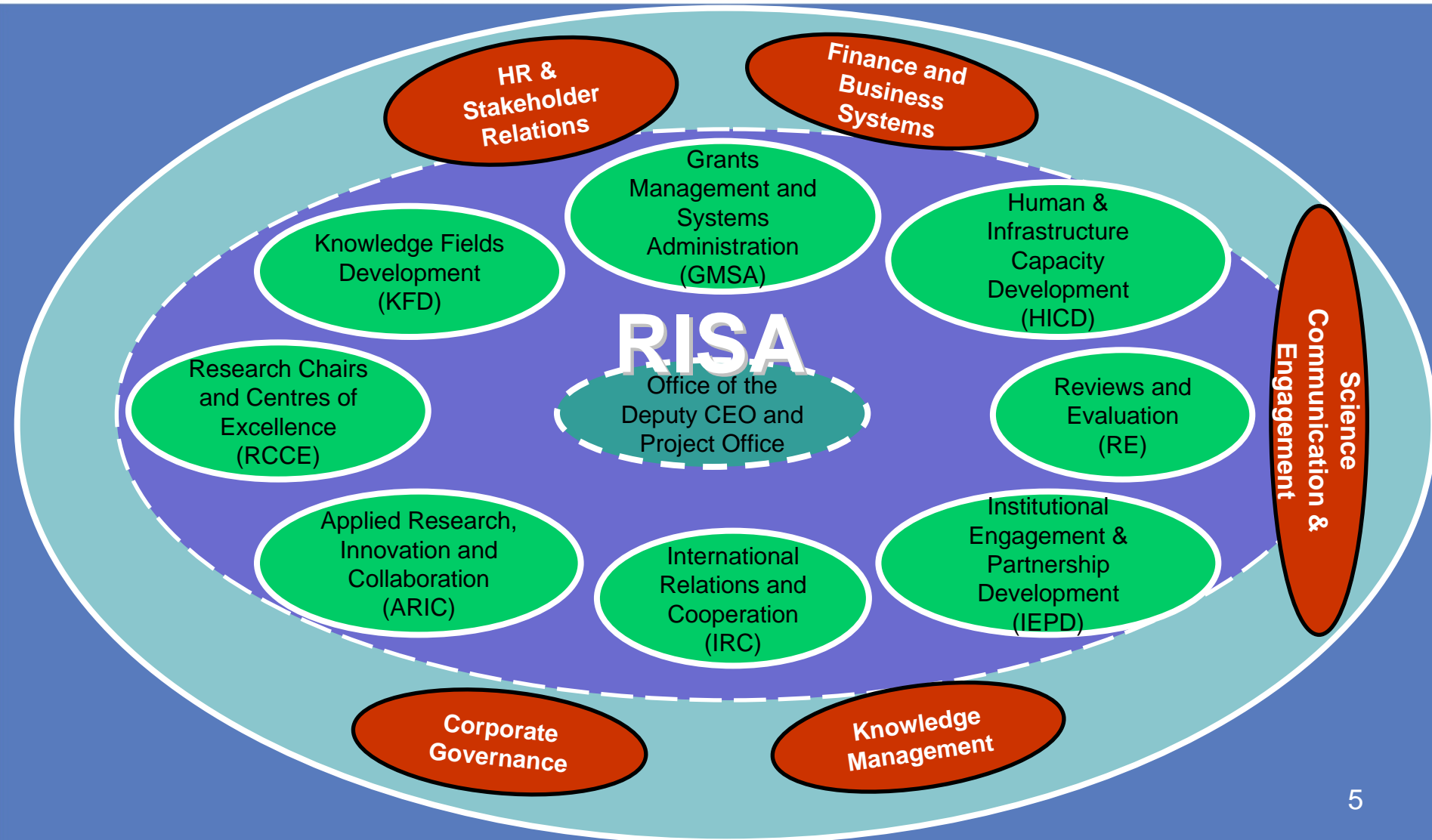
National Research Facilities



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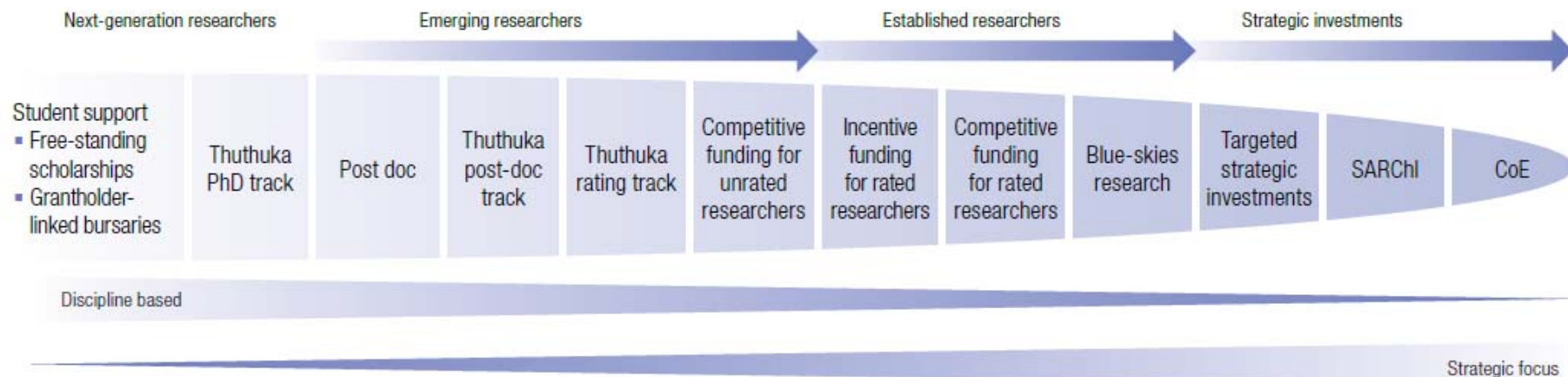
RISA Directorates



RISA Human Capacity Development Excellence Pipeline (R'm)



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Research and Innovation Support and Advancement



Year	Next Generation		Emerging				Established			Strategic Investments		
	Studentship support	Thuthuka PhD track	Post doc	Thuthuka Post-doc track	Thuthuka rating track	Competitive funding unrated	Incentive funding rated	Competitive funding rated	Blue-skies research	Targeted strategic investments	SARChI	CoE
	R	R	R	R	R	R	R	R	R	R	R	R
2008/09 Actual	183.20	5.65	23.09	2.38	5.67	–	10.50	–	–	33.11	100.01	51.15
2009/10 Actual	183.53	4.90	27.41	1.96	5.98	3.02	44.41	–	2.92	37.59	108.43	63.84
2010/11 Actual	307.34	4.18	48.30	2.41	5.75	5.21	70.98	5.10	3.54	49.69	141.43	68.77
2011/12 Actual	222.87	5.38	39.81	6.04	6.04	5.10	83.71	14.93	8.41	44.13	156.03	72.49
2012/13 Actual	328.08	7.36	47.56	9.35	5.46	6.41	97.60	29.10	3.11	69.17	170.58	83.23

South African PhD Project Information Hub



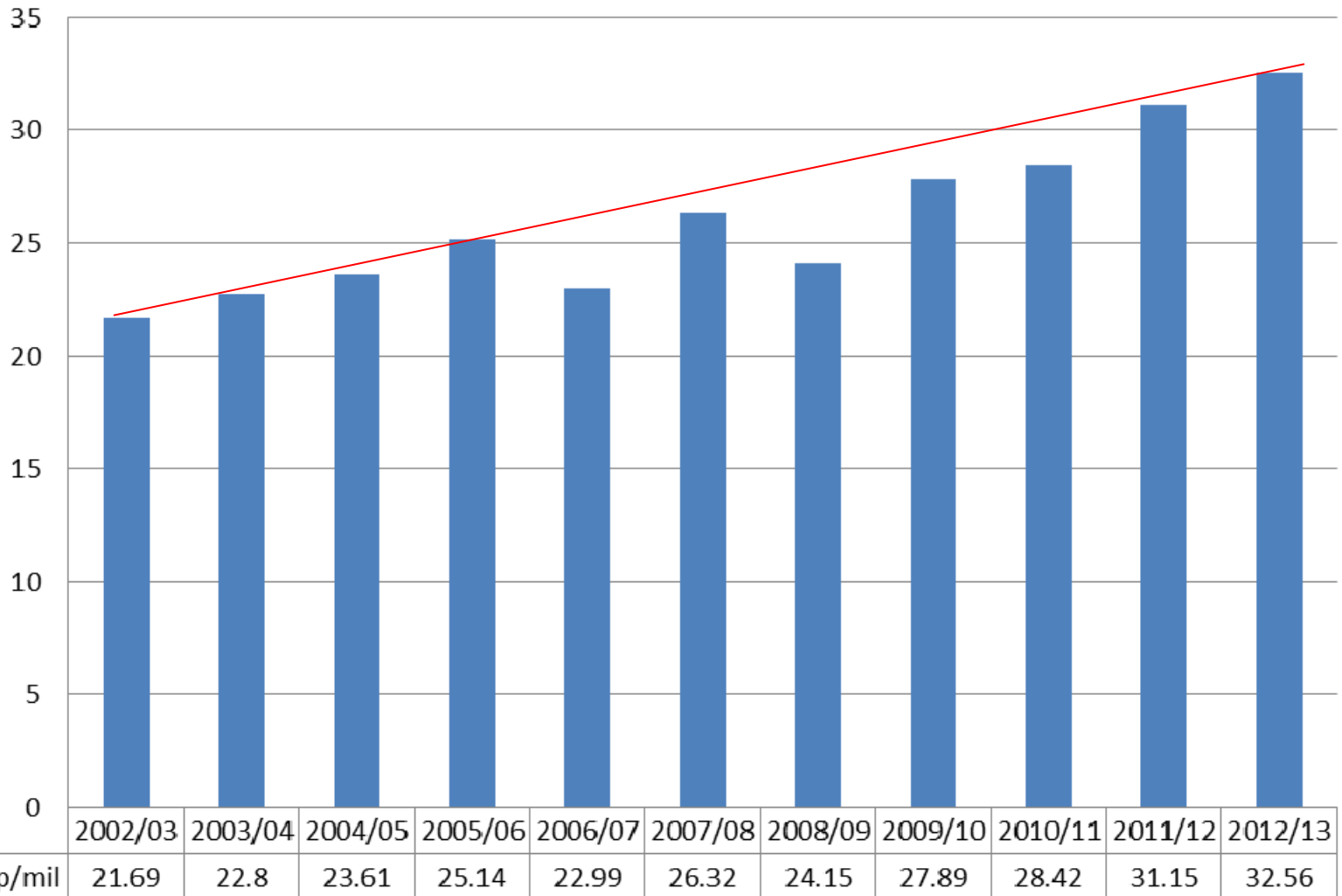
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**CREATING STRENGTH AND DIVERSITY
IN THE SOUTH AFRICAN PUBLIC AND
PRIVATE SECTOR**



- **Doctoral training programmes, funding avenues**
- **Postdoctoral training and employment opportunities**
- **Notification of relevant events, seminars, workshops**
- **Blog**

PhD Graduations per Million of Population per year



Next Generation Researchers

Number of students supported by the NRF

Level Supported	Performance				Target
	2009/10	2010/11	2011/12	2012/13	2012/13
3rd /4th year	286	425	451	470	420
BTech/Honours	1 696	2 718	1 723	2 951	1 950
Master's	2 373	3 566	3 564	3 397	3 390
Doctoral	1 384	1 973	1 979	2 031	1 715
Postdoctoral	304	405	402	460	390

**Growing student throughput ...
3rd/4th year and BTech/Hons doubled in 2012/13**

Funding and initiatives for growing the SET base



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- Next Generation
 - *South African PhD Project*
 - Bursaries and Scholarships
 - DST – NRF Internship
 - Professional Development Programme
- Emerging Researchers
 - Thuthuka Programme
 - Postdoctoral Fellowships
 - Professional Development Programme
 - Research Career Advancement Fellowships
 - Sabbatical grants for completion of doctoral degrees

Thuthuka Programme



- **PhD Track:** for applicants wanting to obtain a PhD within the funding period;
- **Post-PhD Track:** for applicants wanting to become established researchers, strengthening their research capabilities; and
- **NRF Rating Track:** for applicants wanting to apply for an NRF rating within the six-year funding period.

Equity targets for doctoral graduations



South African Demographics (2011)			
	Black	Women	Persons with disability
% of population	91	52	-
% of Doctoral graduates	52	42	-
Target over 3 year period	80	55	4

Targets for International Students

Citizen Distribution	2011	Target
% SA (Citizen & Permanent residence)	94	87
% SADC (Exc. SA)	3	5
% Rest of Africa	2	4
% Outside of Africa	1	4



The SKA SA Project



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- Postdoctoral fellowships: 80% - 100% of the awards have been allocated to foreign candidates. Five per annum.
- Doctoral scholarship: 4 out of the 6 awards were allocated to foreign nationals from the partner countries
- Masters: 4 out of 12 awards were allocated to foreign nationals from the partner countries
- Undergraduate: 4 Botswana students at UKZN per year as per SA/Botswana bilateral agreement. 4 from the partner countries doing a technical degree at DUT.

Partner countries are: Botswana, Ghana, Kenya, Madagascar, Mauritius, Mozambique, Namibia, Zambia

-

PARTNER with us
Realise the **POTENTIAL**



**Enkosi, Thank you,
Re a leboga, Siyabonga,
Dankie**



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Support and Advancement



**National
Research
Facilities**
Research Infrastructure and
National Research Facilities



HartRAO
Hartbeesthoek Radio
Astronomy Observatory



SAAO
South African
Astronomical Observatory



NZG
National Zoological Gardens
of South Africa



SAEON
South African Environmental
Observation Network



SAIAB
South African Institute for
Aquatic Biodiversity



iThemba LABS
Laboratory for Accelerator
Based Sciences



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SAASTA
South African Agency for Science
and Technology Advancement